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NOTICE OF ALLOWANCE AND FEE(S) DUE

512

7590

02/05/2009

WENDEROTH, LIND & PONACK, L.L.P. 2033 K STREET N. W. SUITE 800 WASHINGTON, DC 20006-1021 EXAMINER

MCCULLEY, MEGAN CASSANDRA

ART UNIT PAPER NUMBER

1796

DATE MAILED: 02/05/2009

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/584,307	06/23/2006	Shinya Tanaka	2006_0832A	9023	

TITLE OF INVENTION: EPOXY COMPOUNDS AND CURED EPOXY RESINS OBTAINED BY CURING THE COMPOUNDS

L	APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
	nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/05/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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WASHINGTON	I, DC 20006-1021						(Depositor's name)
							(Signature)
							(Date)
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	05/05/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS]			
MCCULLEY, MEG	GAN CASSANDRA	1796	525-523000				
1. Change of correspondence address or indication of "Fee Address" (3' CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.			(1) the names of up to 3 registered patent attorneys 1				
"Fee Address" ind	ication (or "Fee Address" 2 or more recent) attache	Indication form	registered attorney or agent) and the names of up to				
PLEASE NOTE: Unl	less an assignee is identi h in 37 CFR 3.11. Comp	fied below, no assignee	THE PATENT (print or type data will appear on the p T a substitute for filing an (B) RESIDENCE: (CITY	atent. If an assign assignment.			ocument has been filed for
Please check the appropri	iate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 Co	orporatio	on or other private gro	oup entity 🚨 Government
	are submitted: To small entity discount p # of Copies	ermitted)	b. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo	d. Form PTO-2038	is atta	ched.	
	s SMALL ENTITY statu	s. See 37 CFR 1.27.	☐ b. Applicant is no lon				
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This collection of inform an application. Confident submitting the completed this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 dapplication form to the tons for reducing this bur riginia 22313-1450. DO	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to th NOT SEND FEES OR	on is required to obtain or r 1.14. This collection is est depending upon the indiving Chief Information Office COMPLETED FORMS TO	retain a benefit by t imated to take 12 r ridual case. Any co er, U.S. Patent and O THIS ADDRESS	he publi minutes mments Tradem S. SENI	ic which is to file (and to complete, includir s on the amount of ti- nark Office, U.S. Dep O TO: Commissioner	d by the USPTO to process) ig gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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WENDEROTH	, LIND & I	MCCULLEY, MEGAN CASSANDRA				
2033 K STREET	N. W.	ART UNIT	PAPER NUMBER			
SUITE 800 WASHINGTON	, DC 20006-	1021		1796 DATE MAILED: 02/05/2009		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 29 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 29 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
	10/584,307	TANAKA ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Magan MaCullay	1706	
	Megan McCulley	1796	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	(OR REMAINS) CLOSED or other appropriate comn RIGHTS. This application is	in this application. If not included nunication will be mailed in due cours	
1. X This communication is responsive to afterfinal of 1/16/200	<u>9</u> .		
2. ☑ The allowed claim(s) is/are <u>1,3-8 and 10-12</u> .			
 3. Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the: 1. Certified copies of the priority documents hav) or (f).	
2. ☐ Certified copies of the priority documents hav		ion No	
3. Copies of the certified copies of the priority do T	• • • • • • • • • • • • • • • • • • • •		om the
International Bureau (PCT Rule 17.2(a)).	odinente nave been receiv	od III ililo Hallottat Stage application III	
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	MENT of this application.		
 A SUBSTITUTE OATH OR DECLARATION must be subn INFORMAL PATENT APPLICATION (PTO-152) which giv 			E OF
5. CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.		
(a) \square including changes required by the Notice of Draftsper	son's Patent Drawing Revie	ew (PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	_•		
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment o	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			of
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 			ne
Attachment(s)	5 Notice of	wfarmed Datast Application	
 Notice of References Cited (PTO-892) Dotice of Draftperson's Patent Drawing Review (PTO-948) 		nformal Patent Application Summary (PTO-413),	
 Information Disclosure Statements (PTO/SB/08), 	Paper No	o./Mail Date s Amendment/Comment	
Paper No./Mail Date			
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		s Statement of Reasons for Allowanc	е
INA NA I	9. ☐ Other		
/M. M./ Examiner, Art Unit 1796	/Mark Easho		
	Supervisory P	atent Examiner, Art Unit 1796	

DETAILED ACTION

Allowable Subject Matter

Claims 1, 3-8 and 10-12 allowed.

The following is an examiner's statement of reasons for allowance: Applicant's arguments are persuasive that Joliffe et al. discloses a genus of related compounds while the allowed claims are to a species. Compound 2-11 of Joliffe et al. (page 8) refers to a 1,4-phenylene-1,4-cyclohexylene-1,4-phenylene substructure instead of the 1,4-phenylene-1,4-cyclohexenylene-1,4-phenylene erroneously reported in the previous Office Action. Cyclohexenylene has one double bond in the ring as in the claimed group A⁴, while cyclohexylene has no double bonds in the ring. The 1,4-cyclohexenylene is a possible ring structure disclosed in Joliffe et al. (see pg. 5 lines 15-20), but there is no motivation found in the art of record to replace the cyclohexylene with the cyclohexenylene. Since Joliffe et al. discloses a broad genus of compounds without motivation to pick and choose the claimed species, the compound, it's method of production, compositions comprising it, cured resins comprising it and prepregs comprising it are allowable.

The secondary reference used in the previous Office Actions, Bezborodov et al., does not provide motivation to replace the cyclohexylene with cyclohexenylene since only small compounds are disclosed instead of polymers. Small compound liquid crystals do not behave in the same manner as polymeric liquid crystals.

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Art Unit: 1796

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Amendment

The Examiner acknowledges that the amendment of "Ar⁴" to --A⁴-- does not change the scope of the invention and overcomes the objection to the claims.